

FITTING
HEARING AIDS
BASED ON THE
FLEX PLATFORM
WITH THE
IP5 PROGRAMMER

WIDEX MENU™



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THE IP5 PROGRAMMER

The iP5 programmer is the latest portable programmer from Widex. The iP5 can be used to fit and fine-tune all digital Widex hearing aids (except the CLEAR series) that can be fitted with the SP3 and iP4 programmers.

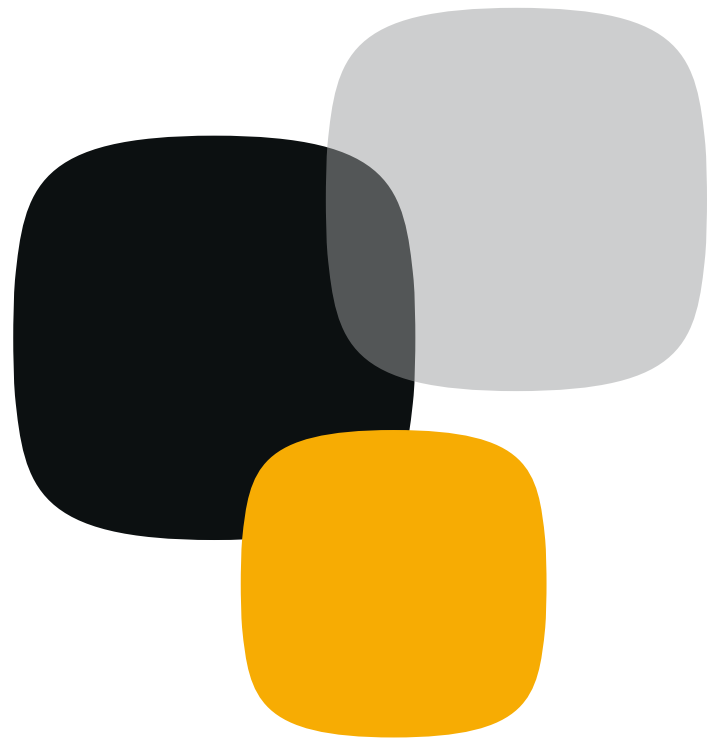
- Widex MENU
- Widex mind330
- Widex mind220
- Widex REAL
- Widex Passion
- Widex Inteo
- Widex AIKIA
- Widex Flash
- Senso Diva
- Senso Vita
- Senso+
- Senso C
- P-series
- Bravissimo
- Bravo

MENU consists of three series according to the number of channels - ME3 (3 channels), ME5 (5 channels) and ME10 (10 channels). This manual refers to ME5-9-cf but can be used for all of the models in the three MENU series.

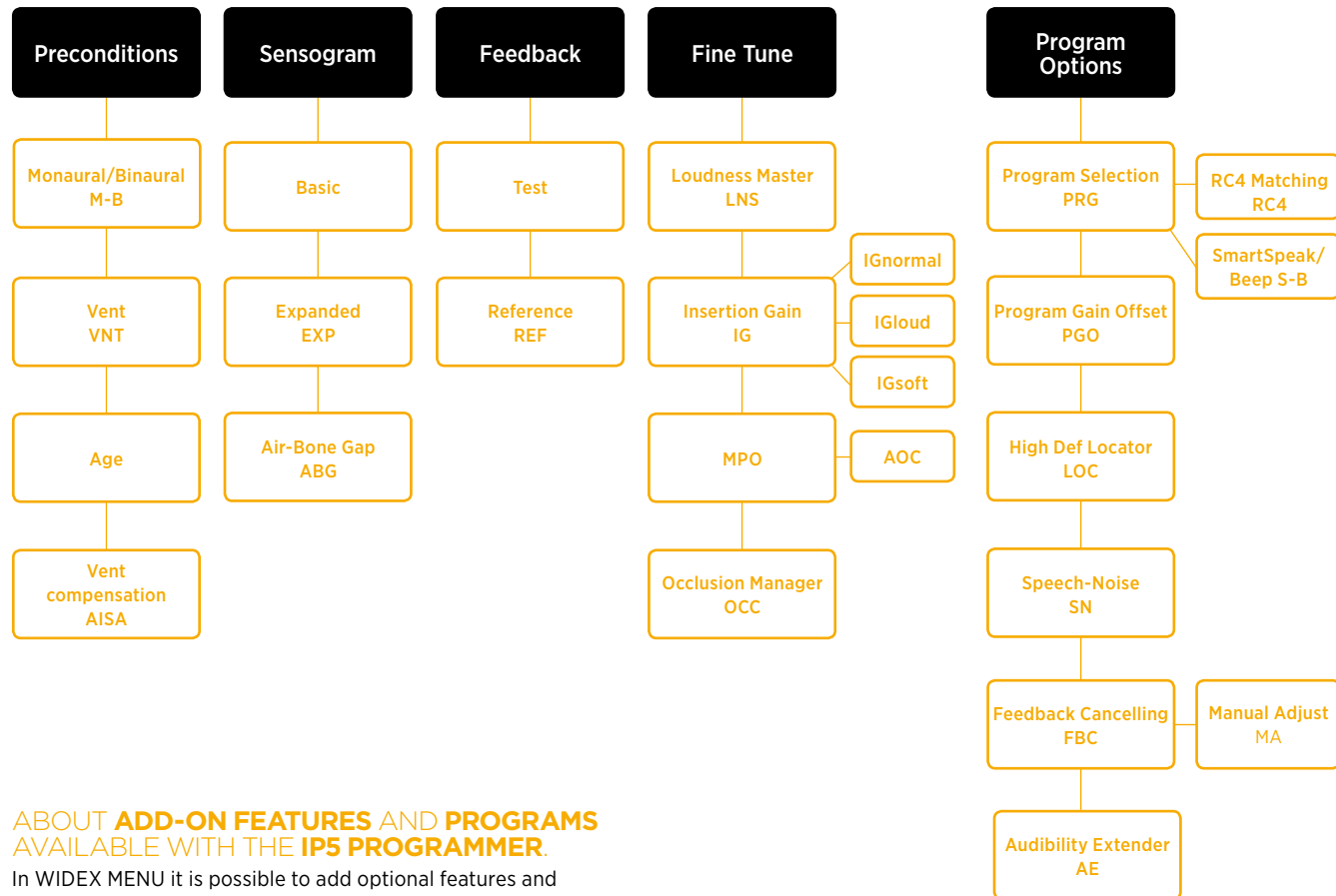
Compared to when using Compass to fit and fine-tune WIDEX MENU instruments, the iP5 programmer has some limitations in terms of flexibility and options. When using the iP5 programmer for MENU fittings, the following features cannot be accessed or fine-tuned:

- DAI programs
- Sound Diary
- RECD
- Less flexibility in program selection (Zen is not available)
- Fewer program fine-tuning options (including QuickFit)
- HA configuration
- Acoustic identities

The fitting flow for MENU hearing aids is the same whether you are using Compass or the iP5 programmer. A MENU hearing aid that has been fitted and fine-tuned with the iP5 programmer is totally compatible with Compass. A MENU hearing aid that has been fitted with Compass is not totally compatible with the iP5 programmer. If a MENU hearing aid with program specific fine tuning is connected to the iP5 programmer, all programs will be linked to the Master program, and the program specific fine tuning will be recalculated. The iP5 programmer will always ask if you want to recalculate the settings according to the format that the iP5 programmer can handle.



OVERVIEW OF THE IP5 FITTING FLOW



ABOUT **ADD-ON FEATURES AND PROGRAMS** AVAILABLE WITH THE **IP5 PROGRAMMER**.

In WIDEX MENU it is possible to add optional features and programs purchased by the client. The features and programs available with the iP5 programmer are up to three supplementary listening programs, Audibility Extender, Speech Enhancer, HD Locator with Speech tracer and SmartSpeak. (Zen is not available with the iP5 programmer.)

Connect the hearing aid to the iP5 programmer. The e-PROM used in the programmer should be version 5.6 or later. Hearing aids can be connected to the right and the left side at the same time. The iP5 programmer reads and displays the settings for one instrument at a time. If you press On R, the programmer reads the data of the instrument connected to the user's right ear, and if you press On L, the programmer reads the data of the instrument connected to the user's left ear.

Control panel

- A. **On R key.** Activates the programmer and reads the data from the right hearing aid.
- B. **On L key.** Activates the programmer and reads the data from the left hearing aid.
- C. **Tone key.** Activates the tone used to measure the Sensogram.
- D. **Main display.** Contains information for the hearing care professional fitting the instrument. The information is mode-sensitive.
- E. **Menu display.** Displays the present function of the menu keys.
- F. **Menu keys.** When you press a menu key, the associated menu function is activated.
- G. **Arrow keys.** Adjustment of values. If you hold down an arrow key, its value increases or decreases. Single keystrokes will change the value one step at a time.

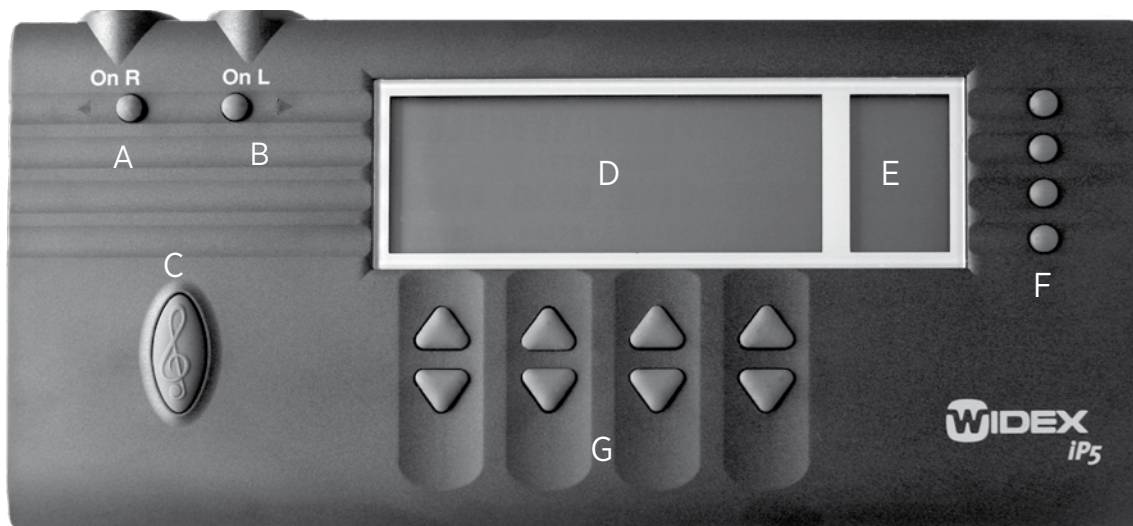


Fig. 1 The iP5 programmer.

Turn the iP5 programmer on by pressing the On R or On L key. If the connected hearing aid has not been fitted before, the iP5 programmer automatically starts up in Preconditions mode.

If you change any fitting or fine-tuning parameters with the iP5 programmer, an hourglass symbol will appear in the main display. This indicates that the iP5 programmer is busy sending data to the hearing aid. The data transmission lasts a few seconds during which time the keys on the programmer are inactive and the hearing aid is muted briefly. Once the hourglass is turned off, you can continue the fitting and fine-tuning process. This routine ensures that parameter settings displayed on the iP5 programmer are always identical to the settings in the hearing aid.

Display information

The iP5 programmer has two displays: a main display and a menu display. The displays show the following information (see fig. 2):

1. **Main field.** Specifies hearing aid type and the mode name or description.
2. **Extra information field.** Indicates, for example, if the feedback result is OK for minimum acceptable gain for speech.
3. **Value field.** The content is mode-sensitive.
4. **Information field.** The content is mode-sensitive. Displays information such as frequency or program.
5. **Menu display.** Displays the current function of the menu keys.

- 6. **Battery indicator.** Blinks when the batteries need changing.
- 7. **Feedback test indicator.** Blinks if a new feedback test is required.
- 8. **Hourglass.** When the hourglass is displayed, the iP5 programmer is “busy”; pressing the keys will therefore have no effect.

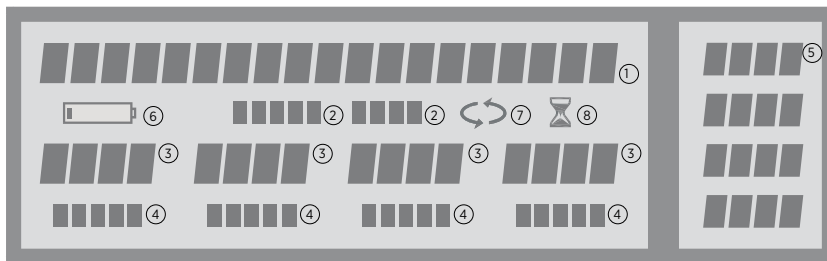


Fig. 2 The iP5 programmer displays.

CONNECTING THE SELECTED HEARING AID

To connect MENU to the iP5 programmer or to HI-PRO/NOAHlink you need a programming cable, which is the same for all models, and a programming adaptor, which is unique for each model. Fig. 3 shows which adaptor to use for each model. BTE hearing aids (except for *m*) must have a battery inserted and be turned on during programming, whereas you must remove the hearing aid battery from the battery drawer when programming ITE, CIC or IIC hearing aids. When programming *m* hearing aids, you must remove the hearing aid battery and the battery cover.



Fig. 3 MENU programming adaptors.

In the first fitting step, the user specific information is inserted. The information that is entered in Preconditions mode is used as parameters in the fitting algorithm to make the fitting of MENU as precise and individual as possible. In Preconditions mode, you have the following four functions at your disposal: Monaural/Binaural M-B, Vent size VNT, Paediatric fittings AGE and Vent compensation AISA.

Press the menu key next to ==> to access the functions that are not visible.

Press the menu key next to the function where you want to insert information.

An exclamation mark will be displayed next to the functions in Preconditions mode where data has been entered. If no data is entered, the iP5 programmer will base the fitting on average and recommended values.

PRECONDITIONS



Fig. 4 The parameters that are entered in Preconditions mode help ensure that the fitting is individualised for your client.

Monaural/Binaural (M-B)

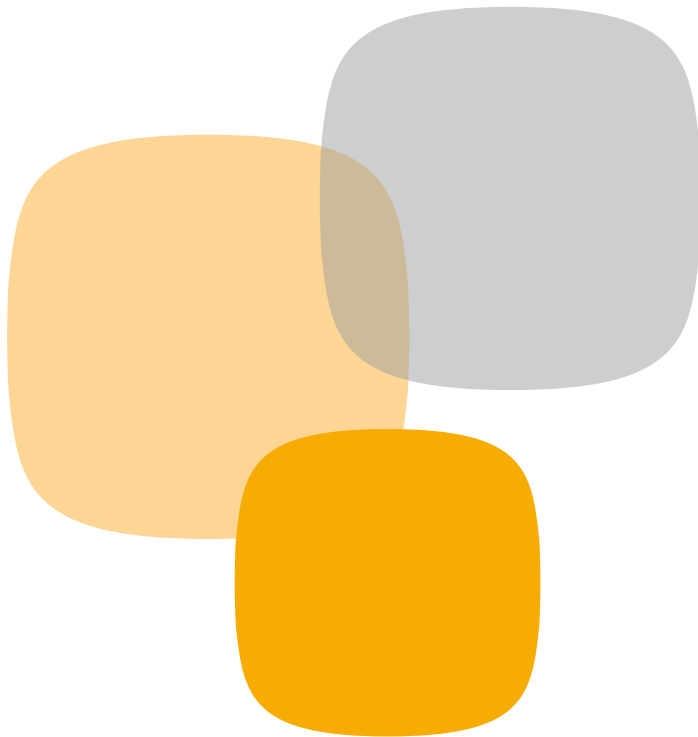
Press the arrow key below “MON” or “BIN” to indicate whether the fitting is monaural or binaural. The fitting rationale compensates for any monaural fitting.

Press the menu key next to “BACK” to return to Preconditions mode.

Vent size (VNT)

The arrow key below the value field allows you to choose from a number of predefined vent parameters.

Press the menu key next to “BACK” to return to Preconditions mode.



Paediatric fittings (AGE)

If you are fitting a child under ten years of age, press the menu key next to “AGE”. Select the age group of the child using the left set of arrow keys. The paediatric rationale will automatically be activated if an age group below the age of ten years is selected.

Press the menu key next to “BACK” to return to Preconditions mode.

Vent compensation (AISA)

In case you do not want to use the automatic vent compensation function (AISA), the iP5 software version 4.2 or higher provides the option to turn AISA off (default setting is On).

Use the arrow key below “OFF” to turn AISA off. With AISA turned off, the result of the feedback test will just be “Test OK”. There will be no indication of the in-situ vent effect in the display.

If you want to use the automatic vent compensation function, just use the arrow key to change the AISA setting to “ON”. You do not have to make a new feedback test. The in-situ vent effect will be displayed in the feedback display.

FITTING **Sensogram**

The next step in the MENU fitting procedure is the Sensogram. Press the menu key next to “MODE” to access Sensogram mode. The hearing aid that is being fitted is muted in Sensogram mode. The hearing aid not currently being fitted is also muted. You can, however, turn it on by using the binaural listening function. To activate the listening function, press the other “On” key. For example if you wish to listen in with the left hearing aid while the right hearing aid is being fitted, press On L. The message “Mic ON Left” is briefly displayed and the small diode next to the On L key starts blinking. This function allows you to provide instructions regarding the Sensogram. To turn off the binaural listening function for the left hearing aid, press the On R key (i.e. the “On” key of the hearing aid you are fit-

ting). The message “Mic OFF Left” is briefly displayed, and the small diode stops blinking. The binaural listening function should always be disabled during the actual measurement of Sensogram thresholds and while performing the feedback test.

Ensure quiet surroundings. First, measure the basic Sensogram using the ascending or descending method, for the frequencies 500, 1000, 2000 and 4000 Hz. Use the arrow keys to adjust the tone level and press the tone key to activate the tone.

After having measured the basic Sensogram, you can go to the expanded Sensogram by pressing the menu key next to “EXP”. The expanded Sensogram is measured in the same way as the basic Sensogram. Press the menu key next to ==> repeatedly to get access to all the frequencies available in the expanded Sensogram mode.

To reset the hearing aid to the basic Sensogram values, first press the menu key next to “BACK”, then the key next to “RSET” and finally the key next to “YES”.

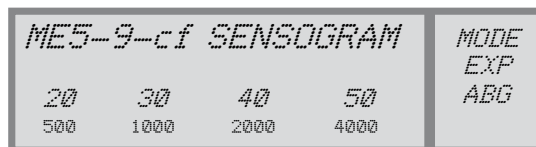


Fig. 5 After the basic Sensogram thresholds have been measured, you can go to the expanded Sensogram by pressing the menu key next to “EXP”. ABG lets you enter a possible air-bone gap.

Air-bone gap (ABG)

If you are fitting a client with a conductive or mixed hearing loss, press the menu key next to “ABG” to enter the air-bone gap. Insert the air-bone gap for 500, 1000, 2000 and 4000 Hz. The MENU fitting rationale will automatically include this information.

Press the menu key next to “BACK” to return to Sensogram mode.

Feedback test

Press the menu key next to “MODE” to access Feedback mode. The hearing aid is muted in Feedback mode. Use the binaural listening function to instruct your client before you start the test.

Ensure quiet surroundings. Press the menu key next to “TEST” to start the feedback test.

While the test is running, “FB” will blink in the main display. If there is too much background noise, the feedback test will be stopped and “- -” will be displayed. Ensure quiet surroundings and start the test again.

The feedback test result is shown in the main display. If “TEST OK” is displayed, you can proceed with the fitting. If “****” is displayed, this indicates that the fit of the earmould or shell is inadequate and the client will not receive enough gain for normal speech. The feedback test also shows the in-situ vent effect. The in-situ vent effect is displayed as a value in mm.

To see the reference values of the test, press the menu key next to “REF”. The measured available gain and the minimum acceptable gain for normal speech (MIN) will be displayed. Press the menu key next to “BACK” to go back to the main Feedback mode.

If you are fitting a hearing aid that has not been programmed before, you have the possibility to use estimated feedback test data. If you want to use estimated values and not measured values, press the menu key next to “MODE” instead of “TEST”. The main display shows “USE ESTIMATED”. Press the menu key next to “YES” to use estimated values. If you do not want to use estimated values, press the menu key next to “NO”.

To complete the fitting, press the menu key next to “MODE”.

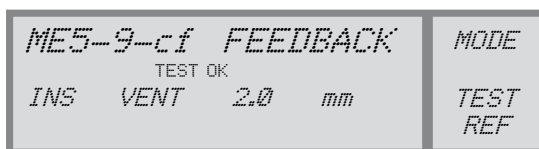


Fig. 6 After the feedback test has been run, the test result and the in-situ vent effect are displayed.

Fitting complete

The first fitting of MENU is complete. The message “Fitting Complete” is displayed briefly in the main display. If the fitting is binaural, you repeat the steps under Preconditions and Fitting.

Let your client evaluate the fitting. When you have ensured that your client is satisfied with the sound quality, loudness level and balance between the hearing aids using the binaural listening function, disconnect the hearing aids from the iP5 programmer.

If the hearing aid has been fitted before, the iP5 programmer will automatically start up in Fine Tune mode. In Fine Tune mode, you have four parameters at your disposal.

- Loudness Master (LNS)
- Insertion Gain (IG)
- MPO manager (MPO)
- Occlusion manager (OCC)

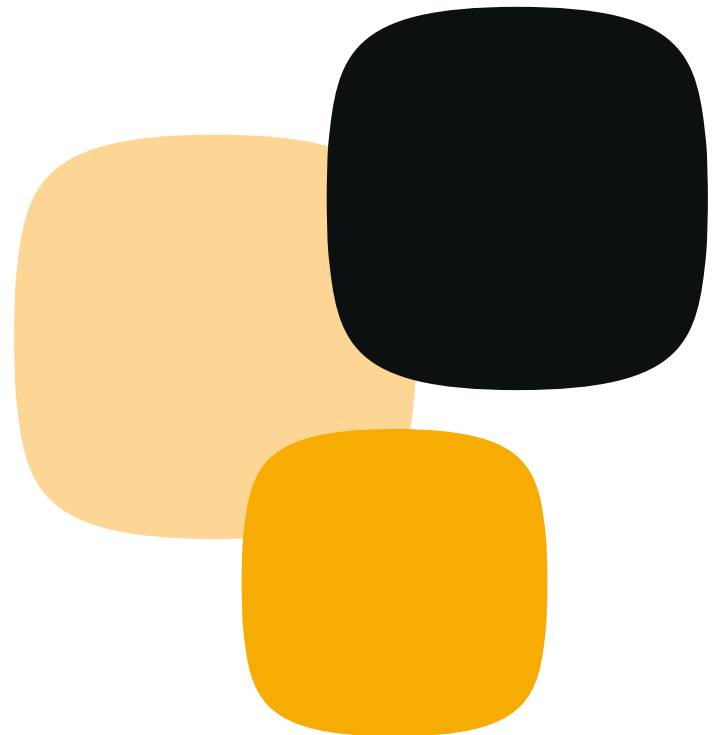
Press the menu key next to ==> to access the parameters that are not visible.

An exclamation mark will be displayed next to the parameters where fine tuning has been made.



Fig. 7 In Fine Tune mode, the sound in the hearing aid can be adjusted according to your client's wishes.

FINE TUNING



Loudness

Press the menu key next to “LNS” to access the Loudness Master parameter. Loudness Master is a master parameter used for adjusting the overall loudness in the hearing aid or balancing the hearing aids. Adjustments in Loudness Master affect all programs in the hearing aid. To adjust the loudness, use the arrow key below the value field. The value 0 (zero) indicates that no adjustments have been made. A negative value indicates that loudness has been decreased and a positive value indicates that loudness has been increased.

Press the menu key next to “BACK” to return to Fine Tune mode.

Gain settings

To access Insertion Gain, press the menu key next to “IG”. To toggle between “Normal”, “Loud” and “Soft” input levels, press the menu key next to “INP”. Use the arrow keys below the main display to adjust the insertion gain.

For each input level, you can adjust insertion gain for the four frequency regions by using the arrow keys below these. TG indicates the target for the input level.

Press the menu key next to “BACK” to return to Fine Tune mode.



Fig. 8 The insertion gain can be adjusted for normal, loud and soft input levels.

MPO

To adjust MPO (Maximum Power Output), press the menu key next to “MPO”. MPO can be adjusted for the four frequency regions. TG indicates the target for the MPO. Any adjustments of MPO will affect all the frequency regions, and it will affect all the programs in the hearing aid.

To turn off the AOC, press the menu key next to “AOC”. Use the arrow keys below the main display to choose ON or OFF.

Press the menu key next to “BACK” to return to the MPO manager. Press the menu key next to “BACK” to return to Fine Tune mode.

Occlusion manager

Press the menu key next to “OCC” to access the Occlusion manager. The Occlusion manager default setting is “OFF”. Use the arrow key below “ON” to turn the Occlusion manager on, and use the arrow key below “LF1” to set the Occlusion manager. Press the menu key next to “BACK” to return to Fine Tune mode.

An exclamation mark will be displayed next to the parameters where fine tuning has been made.



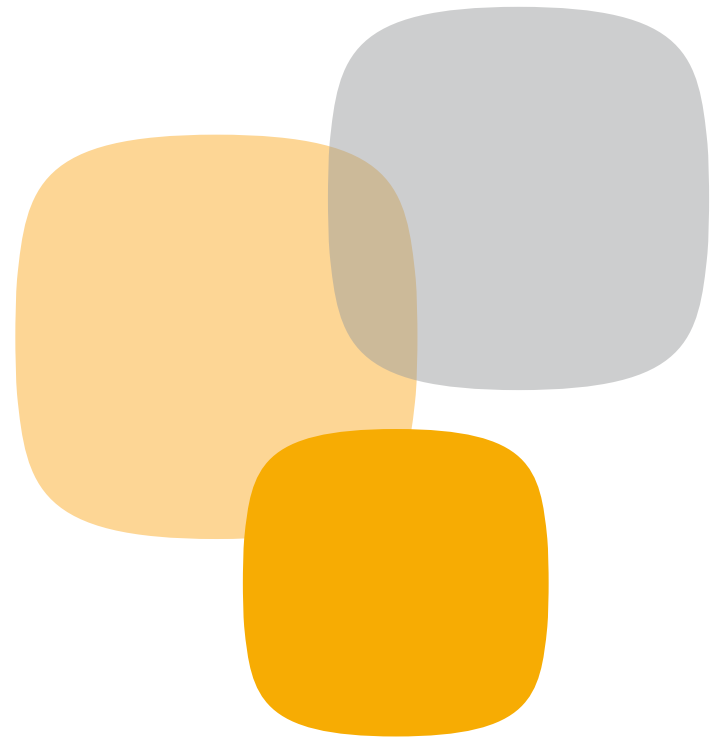
Fig. 9 In the Occlusion manager, gain for the lowest frequency bands can be adjusted to solve occlusion problems. LF1 (125-350 Hz).

Press the menu key next to “MODE” to access Program Options mode. The active program, i.e. the program that the client listens to, will blink on the display.

In Program Options, you can adjust the overall gain and feature settings for each program individually with:

- Program selection
- Program gain offset
- HD Locator
- Speech and noise mode
- Feedback cancelling
- Audibility Extender

PROGRAM OPTIONS



Program selection

By default, MENU starts up with one listening program - the Master program - and one available slot for another listening program. If more program slots have been made available for the hearing aid, use Program selection to add programs. Press the menu key next to “PRG” to see the programs at your disposal. All the programs are predefined with specific feature default settings. MENU can have up to five listening programs. The Master program is always displayed as program number 1 in the main display. To add programs as program 2, 3 and 4, respectively, use the arrow keys below the programs.

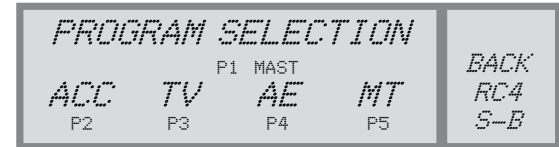


Fig. 10 In Program Selection, you can choose up to five listening programs. If the hearing aid is provided with an RC coil, RC4 will be displayed in the menu display. S-B makes it possible to select between SmartSpeak messages or beep tones in the hearing aid.

The program options are

- Master (MAST)
- Acclimatisation (ACC)
- Standard (STD)
- Music (MUS)
- TV (TV)
- Audibility Extender (AE)*
- MT (MT)**
- T (T)**

*available as an add-on feature

**not available with CIC, IIC, *m*

Program	Description	Configuration
Master	Provides the best possible overall performance in all environments. All adaptive features work together to optimise listening comfort.	<ul style="list-style-type: none"> - HD Locator omni - Speech and noise mode: Noise reduction - Feedback Cancelling: SuperGain
Acclimatisation	Designed for the first-time user who needs an alternative setting during the acclimatisation period. Provides reduced gain compared to the Master program. The program reduces gain for all input levels.	<ul style="list-style-type: none"> - HD Locator omni - Speech and noise mode: Widex classic noise reduction - Feedback Cancelling: SuperGain
Music	Focuses on optimum reproduction of music, whether it is performed live or played from stereo or surround systems. The program emphasises low frequencies.	<ul style="list-style-type: none"> - HD Locator omni - Speech and noise mode: Off - Feedback Cancelling: SuperGain music
TV	Focuses on optimum reproduction of sound from television sets. The program attenuates low frequencies and emphasises high frequencies.	<ul style="list-style-type: none"> - HD Locator omni - Speech and noise mode: Widex classic noise reduction - Feedback Cancelling: SuperGain
Standard	Focuses on overall performance. Feature settings are defined to optimise audibility and intelligibility.	<ul style="list-style-type: none"> - HD Locator omni - Noise reduction - SuperGain

Program	Description	Configuration
Audibility Extender*	Provides audibility for high-frequency sounds by means of frequency transposition. A program for clients with little or no hearing in the high frequencies. The start band frequency is defined by the Sensogram configuration.	<ul style="list-style-type: none"> - HD Locator omni - Speech and noise mode: Widex classic noise reduction - Feedback Cancelling: SuperGain
MT**	An acoustic program combined with the input from the telecoil.	<ul style="list-style-type: none"> - HD Locator omni - Speech and noise mode: Widex classic noise reduction - Feedback Cancelling: SuperGain
T**	Focuses on the input from the telecoil.	

*available as an add-on feature

**not available with CIC, IIC, *m*

RC4 matching

If the hearing aid is provided with an RC coil, RC4 will be displayed in the menu display. The iP5 programmer allows matching of the two RC4 remote control models with MENU hearing aids. All ME3-9-cf, ME5-9-cf, ME10-9-cf, ME3-19-cf, ME5-19-cf, ME10-19-cf and ME3-*m*, ME5-*m*, ME10-*m* hearing aids come with an RC coil. MENU-X ITE, MENU-IIC and MENU-CIC models have to be ordered with an RC coil to be compatible with an RC4 remote control.

During the RC4 matching procedure, the remote control is individualised to match the settings of the hearing aid to the preferences of the client. Each fitting produces three codes that contain all the information necessary for the RC4 to function properly with the hearing aid. You cannot programme the RC4 before you know the three codes from the iP5 programmer.

Press the menu key next to “RC4” in Program Selection.

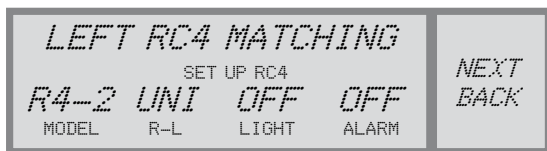


Fig. 11 The setup screen of RC4 matching.

In the setup screen of RC4 matching you can select: RC4 model, separate or united handling of the right and left hearing aid, light on/off and alarm on/off. If no RC4 handling has been done previously, a “?” will flash. Here you have to choose between RC4-1 and RC4-2. Use the arrow keys below the main display to make your selection.

Start the matching process by pressing the menu key next to “NEXT”. The three RC4 matching codes will be displayed.



Fig 12 The three RC4 matching codes are displayed.

Insert batteries in the RC4. Press and hold the “+” key and then the centre key on the RC4. The display on the RC4 shows “Pro” and the remote control is now in programming mode.

Press the centre key of the RC4 until the RC4 display shows “c 1”, and enter code 1. Press the centre key of the RC4 again and enter code 2. Press the centre key again and enter code 3. Finally press the centre key until the RC4 display shows “End”. The settings and options are programmed and saved in the RC4. The remote control turns off automatically after a time-out period.

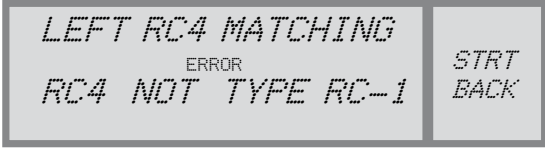
When the three codes have been entered, the result of the matching process is shown in the main display of the iP5. If “MATCH OK” is displayed, it indicates that the matching process has been successfully completed. Information about the RC4 model, the choice of hearing aid handling, ID number and the number of programs in the RC4 is shown in the main display.



Fig. 13 The matching process has been successfully completed.

Press the menu key next to “BACK” to go back to Program Selection mode.

If the matching process is not ok, one of the following errors will be displayed:



Appears when matching with an RC4-1 has been selected, but the model from which the iP5 receives information is an RC4-2.



Appears when matching with an RC4-2 has been selected, but the model from which the iP5 receives information is an RC4-1.



Appears when matching with an RC4 with a non-valid ID code has been chosen.

Press the menu key next to “BACK” to enter the RC4 setup screen. Change the selection of the RC model by using the arrow key below the main display. Press the “STRT” key to go to the initial step of the matching process and enter the three codes.

SmartSpeak – beep tones

If SmartSpeak is added to the hearing aid, it is possible to switch between SmartSpeak and beep tones. Press the menu key next to “S-B”. Use the arrow keys below the main display to choose SPEAK or BEEP.

Press the menu key next to “BACK” to go back to Program Selection mode. In Program Selection mode, press the menu key next to “BACK” to go back to Program Options mode.

The level of the SmartSpeak messages, language and type of speaker (Male/Female) can only be altered using Compass.

Program gain offset

Press the menu key next to “PGO” and use the arrow keys below the main display to adjust the gain for the individual program as required. The value 0 (zero) indicates that no adjustments have been made. A negative value indicates that the gain has been decreased and a positive value indicates that the program gain has been increased.

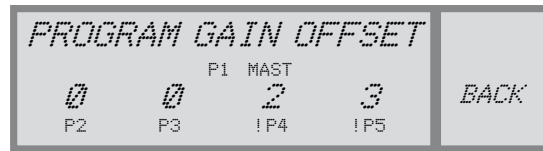


Fig. 14 In Program Gain Offset the gain can be adjusted for each acoustic program individually.

Press the menu key next to “BACK” to go to Program Options mode.

HD Locator

Press the menu key next to “LOC” to adjust the setting of the HD Locator in the individual program as required. The programs are predefined with specific feature settings. The HD Locator can be set in the acoustic programs. In MT and T, the default setting is omni and cannot be changed.

You can change the microphone setting of a program by using the arrow keys below that program.

The HD Locator settings are:

- HD Locator with Speech Tracer (LOCS)*
- HD Locator omni (OMNI)
- HD Locator dir (DIR)

*needs to be purchased additionally



Fig. 15 The HD Locator can be set separately for each program.

Press the menu key next to “BACK” to return to Program Options mode.

Speech and noise mode

To adjust the speech and noise setting for the individual programs, press the menu key next to “SN”. Each program has a default speech and noise setting. You can change the speech and noise setting of a program by using the arrow keys below that program. The speech and noise settings are:

- Off (OFF)
- Noise reduction minimum (W1)
- Noise reduction (W2)
- Noise reduction enhanced (W3)
- Noise reduction comfort (COMF)
- Speech Enhancer (SPNH)*

Press the menu key next to “BACK” to return to Program Options.

*needs to be purchased additionally

Feedback Cancelling

To change the feedback cancelling setting, press the menu key next to “FBC”. Each program is predefined with a default feedback cancelling setting. You can change the feedback cancelling setting of a program by using the arrow keys below that program.

The feedback cancelling settings are:

- SuperGain (STD)
- SuperGain music (MUS)
- Off (OFF)

If you choose the feedback cancelling setting OFF, “MA” (manual adjustment) is displayed in the menu display. If you want to manually adjust the feedback margin, press the menu key next to “MA”. Manual adjustments can only be made in the programs where the feedback cancelling feature is set to OFF. Manual adjustments are made in 1 dB steps.

For the optional Audibility Extender program it is only possible to choose between SuperGain or Off.

Press the menu key next to “BACK” to return to Program Options.

Audibility Extender

If the Audibility Extender program is added, “AE” will appear in the menu display. Press the menu key next to “AE” to have the Audibility Extender start band displayed. The start frequency band is defined by the Sensogram thresholds. If you want to change the start frequency band, use the arrow key under the program that has been selected as the Audibility Extender program.

The start frequencies are:

ME3: 1600, 2000, 2500, 3200, 4000 Hz.

ME5 and ME10: 800, 1000, 1250, 1600, 2000, 2500, 3200, 4000 Hz.

Press the menu key next to “BACK” to return to Program Options.

An exclamation mark will be displayed next to the functions where adjustments have been made.



TEST MODE

MENU hearing aids can be put in a special measurement mode. The purpose of this mode is to allow reproduction of specified MENU data for quality control or service. When the test mode is active, the client should not wear the hearing aid. In Test Mode, MENU's automatic mode is disabled so that pure tone measurements can be used for comparison purposes according to measurement standards. Use the following procedure:

- Turn the iP5 programmer off by pressing the On R and On L keys simultaneously.
- Hold down the top menu key while pressing the relevant On key (On R or On L). The hearing aid is now in position M (the microphone is on). The amplifier is set to linear amplification with fixed gain. Noise Reduction, Feedback Cancelling and the microphone squelch are deactivated. Dual microphone MENU instruments are set in omnidirectional mode.

Measurements can now be made. When the test is completed, return to normal mode by pressing the On L or On R key.

If the hearing aid has a telecoil, you can switch to position T (telecoil) by pressing the key next to "TELE" in the menu display.

The programmed data in MENU will not be changed. MENU will remain in Test Mode until you press the relevant On key on the iP5 programmer or turn the hearing aid off.

The iP5 programmer is automatically turned off after ten minutes unless it is manually turned off before.

Inserting and changing the batteries

When the battery symbol in the main display starts to blink, it is time to change the batteries of the iP5 programmer. You need three 1.5 V batteries, size AA, for the iP5 programmer. To insert the batteries, remove the battery door on the back of the programmer. For correct battery positioning see the symbols in the battery compartment. Always change all three batteries at the same time, and make sure that they are correctly inserted. Replace the battery door.

Please note that hearing instruments must not be connected to the programmer when you change the batteries.

After changing the batteries, or when inserting batteries for the first time, press On L and On R simultaneously; this will turn off and reset the programmer. When you turn the programmer on again, it is ready for use.

Checking the software version

By updating the programming software you can ensure that the iP5 programmer continues to work optimally and is able to programme the latest Widex hearing aids. PROM version 5.6 or later is required for programming the MENU series. The software version number is written on the PROM and can be read through the little window on the back of the iP5 programmer.



Fig. 16 The software version number is written on the PROM chip and can be read through the little window on the back of the iP5 programmer.

Updating the PROM

We advise you to check with your distributor before updating the PROM in the iP5 programmer. Should it be necessary to make the update without consulting the distributor, it is important that you follow this procedure:

- Cut off the power by removing the battery compartment door and removing the batteries.
- Open the PROM cover on the back of the iP5 programmer.
- Insert the batteries and replace the PROM cover and the battery compartment door.
- Reset the iP5 programmer by pressing the On R and On L keys simultaneously.

If you have an old PROM in the iP5, remove the old PROM version by using a special removal tool (known as a PLCC extractor) to avoid damaging the socket. Insert the extractor into the slots of the socket, press it together and the PROM can easily be pulled out.

There are two sockets in iP5. Place the new PROM version over the right socket and gently press it in place. The PROM 5.6 should go in the right socket and the left marked with a red dot should be empty. Do not touch the pin connectors on the PROM as this can cause damage.



Fig. 17 To remove the PROM use the removal tool (PLCC extractor)

ABG	Air-bone gap	LF1	Controls the overall gain in the 125, 250 and 350 Hz bands
ACC	Acclimatisation program	LNS	Loudness master
AE*	Audibility Extender*	LOCS*	HD Locator with Speech Tracer*
AGE	Age group	MA	Manual adjustment
AISA	Assessment of in-situ acoustics	MAST	Master program
AOC	Automatic Output Control	M-B	Monaural-binaural fitting
BIN	Binaural	MIN	Minimum acceptable gain for speech
CF	Classic flex	MON	Monaural
CO	Classic open	MPO	Maximum power output
COMF	Widex classic noise reduction comfort	MT	Microphone + telecoil program
DIR	High Definition Locator directional	MUS	Music program
EF	élan flex	MUS	SuperGain music
EO	élan open	OCC	Occlusion manager
EXP	Expanded Sensogram	OFF	No noise reduction
FBC	Feedback Cancelling	OMNI	High Definition Locator omni
IG	Insertion gain	PGO	Program gain offset
INP	Input level	PRG	Program selection
INS GAIN	Insertion gain		
ISP	Integrated Signal Processing		

ABBREVIATIONS USED IN THE IP5 PROGRAMMER

*needs to be purchased additionally

REF	Reference values
RSET	Reset
S-B	SmartSpeak – Beep tones
SPNH	Speech Enhancer (speech and noise mode)
STD	Standard program
T	Telecoil program
TV	TV program
VNT	Vent diameter
W1	Widex classic noise reduction minimum
W2	Widex classic noise reduction
W3	Widex classic noise reduction enhanced



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